

DISTRIBUTED COMPUTER PLATFORM WITH FLEXIBLE CONFIGURATIONABSTRACT OF THE DISCLOSURE

Embodiments of the present invention provide a system and method of modeling a computer system. The computer system is modeled by a plurality of components and a plurality of interface enabling interactions between the components. A searchable tree data structure defining the components and the interactions between the components is generated and stored. The searchable tree data structure may be utilized to determine a status of a particular component. Based upon the status of the component, one or more interactions between the component and another may be enabled.